🏝 ExPASy Home page	Site Map	Search ExPASy	Contact us	ENZYME	Swiss-Pro
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NiceZyme View of ENZYME: EC 6.3.2.19

Official Name	
Ubiquitinprotei	n ligase.
Alternative Name	e(s)
Ubiquitin-activat	ing enzyme.
Ubiquitin-conjug	ating enzyme.
Reaction catalys	ed
ATP + ubiquitin +	protein lysine <=> AMP + diphosphate + protein N-ubiquityllysine
Comment(s)	
- Ubiquitin is d	counted to protein by a portido bond between the C terminal aluging of

- Ubiquitin is coupled to protein by a peptide bond between the C-terminal glycine of ubiquitin and epsilon-amino groups of lysine residues in the protein.
- An intermediate in the reaction contains one ubiquitin residue bound as a thiolester to

the enzyme, and a residue of ubiquitin adenylate non-covalently bound to the enzyme. **Cross-references PROSITE** PDOC00163 BRENDA 6.3.2.19 PUMA2 6.3.2.19 PRIAM enzyme-6.3.2.19 specific profiles **Kyoto University** LIGAND 6.3.2.19 chemical database IUBMB Enzyme 6.3.2.19 Nomenclature IntEnz 6.3.2.19 MEDLINE Find literature relating to 6.3.2.19 MetaCyc 6.3.2.19 Q9R049, AMFR_MOUSE; P51668, UB2D1_HUMAN; P61080, UB2D1 MOUSE; P62837, UB2D2_HUMAN; P62838, UB2D2_MOUSE; P62839, UB2D2_RAT; P62840, UB2D2_XENLA; P61077, UB2D3_HUMAN; P61079, UB2D3_MOUSE; P61078, UB2D3_RAT; P70711, UB2D4_RAT; P51965, UB2E1 HUMAN; P52482, UB2E1_MOUSE; Q96LR5, UB2E2_HUMAN; Q91W82, UB2E2_MOUSE; Q969T4, UB2E3_HUMAN; P52483, UB2E3 MOUSE; Q95044, UB2EC SPISO; P62253, UB2G1_HUMAN; P62254, UB2G1_MOUSE; P56616, UB2EC XENLA;

```
P62255, UB2G1 RAT;
                                        P60604, UB2G2 HUMAN;
                                                               P60605, UB2G2 MOUSE:
                 Q5RF84, UB2G2_PONPY;
                                        Q9Y385, UB2J1 HUMAN;
                                                               Q9JJZ4, UB2J1 MOUSE;
                 Q8N2K1, UB2J2_HUMAN;
                                        Q6P073, UB2J2 MOUSE;
                                                               P68036, UB2L3 HUMAN;
                 P68037, UB2L3 MOUSE;
                                        014933, UB2L6 HUMAN;
                                                               Q9QZU9, UB2L6 MOUSE;
                 Q7Z7E8, UB2Q1_HUMAN;
                                        Q7TSS2, UB2Q1 MOUSE;
                                                               Q32L27, UB2Q2_BOVIN;
                 Q8WVN8, UB2Q2_HUMAN;
                                        Q8K2Z8, UB2Q2 MOUSE;
                                                               Q7YQJ9, UB2Q2 RABIT;
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                                        Q8CFI2, UB2R1 MOUSE;
                                                               Q29503, UB2R1_RABIT;
                 P35133, UBC10 ARATH;
                                        P35134, UBC11_ARATH;
                                                               000103, UBC11_SCHPO;
                 P52492, UBC11_YEAST;
                                        Q42541, UBC13_ARATH;
                                                               O13685, UBC13_SCHPO;
                 P52490, UBC13 YEAST;
                                        P42747, UBC14 ARATH;
                                                               Q9Y818, UBC15 SCHPO;
                 Q9P6I1, UBC16 SCHPO;
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                 P52478, UBC1 CAEEL;
                                        074196, UBC1 COLGL;
                                                               P61086, UBC1 HUMAN;
                 Q9UVR2, UBC1_MAGGR;
                                        P61087, UBC1 MOUSE;
                                                              P21734, UBC1_YEAST;
                 P52484, UBC21_CAEEL;
                                        P42745, UBC2 ARATH;
                                                               Q75EB8, UBC2_ASHGO;
                 Q4WLA7, UBC2 ASPFU;
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                                                               O74201, UBC2_CANAL;
                 Q6FR76, UBC2_CANGA;
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                                        Q6CUD9, UBC2 KLULA;
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                 P78717, UBC2 NECHA;
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                 Q58FS2, UBC2 TRIHA;
                                        Q4PFA5, UBC2_USTMA;
                                                              P25866, UBC2 WHEAT;
                 Q6C093, UBC2 YARLI;
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                                                               P42746, UBC3 ARATH;
UniProtKB/Swiss- P40984, UBC3_SCHPO;
                                       P14682, UBC3 YEAST;
                                                               P42748, UBC4_ARATH;
                 P43102, UBC4_CANAL;
                                                              P46595, UBC4_SCHPO;
                                       P35135, UBC4_LYCES;
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                 P16577, UBC4_WHEAT;
                                       P15731, UBC4 YEAST;
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                                                               Q74Z34, UBC6 ASHGO;
                 Q6FQK7, UBC6 CANGA;
                                       Q6BYG4, UBC6 DEBHA;
                                                               Q6CMG6, UBC6 KLULA;
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                                                               Q42540, UBC7 ARATH;
                 P34477, UBC7_CAEEL;
                                       000102, UBC7_SCHPO;
                                                               P25868, UBC7 WHEAT;
                 Q02159, UBC7 YEAST;
                                        P52487, UBC84_DROME;
                                                              P35131, UBC8_ARATH;
                 P28263, UBC8 YEAST;
                                        P35132, UBC9_ARATH;
                                                               Q95017, UBC9 CAEEL;
                                       P25867, UBCD1_DROME;
                 P50623, UBC9 YEAST;
                                                              P52485, UBCD2 DROME;
                 P35128, UBCD3 DROME; P52486, UBCD4_DROME;
                                                              P25153, UBCD6 DROME;
                 O60015, UBCX PICAN;
                                       P49428, UBCX PICPA;
                                                               P29340, UBCX YEAST;
                 P42743, UBCY ARATH;
                                       P27949, UBC ASFB7;
                                                              P25869, UBC ASFM2;
                 Q5UQC9, UBC MIMIV;
                                       P49459, UBE2A HUMAN;
                                                              Q9Z255, UBEZA MOUSE;
                 P63146, UBE2B HUMAN;
                                       P63147, UBE2B MOUSE;
                                                              P63148, UBE2B RABIT;
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                                                               Q9D1C1, UBE2C MOUSE;
                 P62256, UBE2H HUMAN;
                                       P62257, UBE2H MOUSE;
                                                              P63283, UBE2I_CHICK;
                 P63279, UBE2I HUMAN;
                                       009181, UBE2I MESAU;
                                                               P63280, UBE2I MOUSE;
                 P63281, UBE2I RAT;
                                        P63282, UBE2I XENLA;
                                                               P61088, UBE2N HUMAN;
                 Q4R4I1, UBE2N MACFA;
                                        P61089, UBE2N MOUSE;
                                                               Q5R7J6, UBE2N PONPY;
                 Q9EQX9, UBE2N RAT;
                                        Q16763, UBE2S HUMAN;
                                                               Q921J4, UBE2S MOUSE;
                 Q9NPD8, UBE2T_HUMAN;
                                        Q9CQ37, UBE2T MOUSE;
                                                              Q7ZY08, UBE2T XENLA;
                 Q5VVX9, UBE2U HUMAN;
                                        Q95LM1, UBE2U MACFA;
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View entry in original ENZYME format

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 6.3.2.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 6.3.-.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 6.-.-

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DATE: Thursday, March 16, 2006

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count
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	L5	L4 and (method\$4).clm.	62
	L4	l2 and (vecto\$4 or cell\$4).clm.	65
	L3	ll and (xiong or ohta).in.	0
	L2	11 and (polynucleot\$4 or nucleic\$4 or dna\$4 or gene\$4).clm.	. 74
	L1	((regulat\$4 same culli\$4) or rbx\$4 or roc1\$4 or (ring\$4 same box\$4 same prote\$4) or (ubiquit\$4 same ligas\$4)).clm.	134

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Search Results - Record(s) 1 through 20 of 74 returned.

☐ 1. Document ID: US 20060051755 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 74

File: PGPB

Mar 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060051755

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060051755 A1

TITLE: Methods of assaying for cell cycle modulators

PUBLICATION-DATE: March 9, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Hitoshi; Yasumichi

Brisbane

CA

US

Jenkins; Yonchu

Oakland

CA

US

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
		<u> </u>	, ID	110.00	0500331.40	1				·····		i
	2.	Docume	nt ID:	US 20	050277149	Al						
L2: 1	Entry	2 of 7	74			I	File: PG	PB		Dec	15,	2005

PGPUB-DOCUMENT-NUMBER: 20050277149

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050277149 A1

TITLE: Pharmaceutically tractable secondary drug targets, methods of identification and their use in the creation of small molecule therapeutics

PUBLICATION-DATE: December 15, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Friend, Stephen Seattle WA US

Friend, Stephen Seattle WA US Hartwell, Leland Seattle WA US

US-CL-CURRENT: 435/6; 435/455

Record List Display Page 2 of 10

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

☐ 3. Document ID: US 20050244970 A1

L2: Entry 3 of 74 File: PGPB Nov 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050244970

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050244970 A1

TITLE: Stem cell libraries

PUBLICATION-DATE: November 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Zhang, Hongbing Albany CA US Williams, Lewis Thomas Mill Valley CA US Chu, Keting Burlingame CA US

US-CL-CURRENT: 435/455; 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De

☐ 4. Document ID: US 20050221383 A1

L2: Entry 4 of 74 File: PGPB Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050221383

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050221383 A1

TITLE: Osteoarthritis biomarkers and uses thereof

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Liew, Choong-Chin Toronto CA Yager, Thomas Mississauga CA Dempsey, Adam Toronto CA Chao, Samuel Concord CA Zhang, Hongwei Toronto CA Marshall, Wayne Scarborough CA

US-CL-CURRENT: 435/7.1; 530/388.22

☐ 5. Document ID: US 20050221310 A1

L2: Entry 5 of 74

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050221310

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050221310 A1

TITLE: Methods for enhancing gene expression analysis

PUBLICATION-DATE: October 6, 2005

INVENTOR - INFORMATION:

NAME CITY · STATE COUNTRY Scherf, Uwe Potomac MD US Hoke, Glenn D. Mt. Airy MD US Wilson, Daniel J. Mississauga MD CA Barnes, Debra A. Frederick US

US-CL-CURRENT: 435/6; 435/91.2

Full Tit	le Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
Пб	Docume	nt ID:	118 20	050181452	A 1						

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20050181452

PGPUB-FILING-TYPE: new

L2: Entry 6 of 74

DOCUMENT-IDENTIFIER: US 20050181452 A1

TITLE: Fragment complementation assays for G-protein-coupled receptors and their signaling pathways

PUBLICATION-DATE: August 18, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Westwick, John K. San Ramon CA US Keon, Brigitte Castro Valley CA US MacDonald, Marnie L. Pleasanton CA US

US-CL-CURRENT: <u>435/7.1</u>; <u>436/518</u>, <u>530/388.22</u>

	ILALION	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawu
					3-10-	The letter to the	Godacheco	- ittacriments	Claims	Koolo	DIAM

☐ 7. Document ID: US 20050170375 A1

L2: Entry 7 of 74

File: PGPB

Aug 4, 2005

Aug 18, 2005

Record List Display Page 4 of 10

PGPUB-DOCUMENT-NUMBER: 20050170375

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050170375 A1

TITLE: Methods for enhancing gene expression analysis

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Scherf, Uwe Potomac . MD US Hoke, Glenn D. Mt. Airy MDUS Wilson, Daniel J. Mississauga MD CA Barnes, Debra A. Frederick US

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
	8.	Docume	nt ID:	US 20	050095616	A 1						
L2: E	Entry	8 of 7	4				File: F	GPB		May	5,	2005

PGPUB-DOCUMENT-NUMBER: 20050095616

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050095616 A1

TITLE: IkappaB-beta-lactamase assay

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Burke, James R. Holland PA US Wang, Shulin Monmouth Junction NJ US

US-CL-CURRENT: 435/6; 435/15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
	9.	Docume	nt ID:	US 20	050042607	A1						

File: PGPB

Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050042607

PGPUB-FILING-TYPE: new

L2: Entry 9 of 74

DOCUMENT-IDENTIFIER: US 20050042607 A1

TITLE: Parkin protein as ubiquitin ligase

Record List Display Page 5 of 10

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Mizuno, Yoshikuni Tokyo JP Shimizu, Nobuyoshi Chiba JP

US-CL-CURRENT: 435/6; 435/7.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
 							<u> </u>				· · · ·	
	10.	Docume	ent ID): US 2	005002617	2 A1						
L2: E	entry	10 of '	74				File:	PGPB		Feb	3,	2005

PGPUB-DOCUMENT-NUMBER: 20050026172

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050026172 A1

TITLE: siRNA libraries optimized for predetermined protein families

PUBLICATION-DATE: February 3, 2005

INVENTOR - INFORMATION:

NAME	CITY	STATE	COUNTRY
Li, Henry	Carlsbad	CA	US
Chatterton, Jon E.	San Diego	CA	US
Fan, Wufang	San Diego	CA	US
Ke, Ning	San Diego	CA	US
Wong-Staal, Flossie	San Diego	CA	US

US-CL-CURRENT: 435/6; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
	1.1				004004070	0 4 1						
		Docum): US 2	004024879	8 A I	File:	PGPB		Dec	9.	2004

PGPUB-DOCUMENT-NUMBER: 20040248798

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248798 A1

TITLE: Contraceptive methods and compositions related to proteasomal interference

PUBLICATION-DATE: December 9, 2004

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY Sutovsky, Peter Columbia MO US

Day, Billy N.
McCauley, Tod C.
Sutovsky, Miriam

Auxvasse MO US
Tucson AZ US
Columbia MO US

US-CL-CURRENT: <u>514/12</u>; <u>424/130.1</u>, <u>514/44</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 12. Document ID: US 20040248233 A1

L2: Entry 12 of 74

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040248233

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248233 A1

TITLE: Pharmaceuticals and methods for treating hypoxia and screening methods

therefor

PUBLICATION-DATE: December 9, 2004

INVENTOR - INFORMATION:

NAME

Kaelin, William G. JR.

Ivan, Mircea

CITY

Cambridge

STATE

COUNTRY

Boston MA

MA

US US

US-CL-CURRENT: 435/23

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De 13. Document ID: US 20040247586 A1

L2: Entry 13 of 74 File: PGPB Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040247586

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040247586 A1

TITLE: Parkin-associated complex for protecting post-mitotic neurons from

excitotoxicity and uses thereof

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Abeliovich, Asa New York NY US Staropoli, John Francois New York NY US

US-CL-CURRENT: 424/94.63; 435/226

Record List Display Page 7 of 10

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 14. Document ID: US 20040224338 A1

L2: Entry 14 of 74

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040224338

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040224338 A1

TITLE: Profiling and cataloging expressed protein tags

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Chicz, Roman M. Belmont MA US Hedley, Mary Lynne Lexington MA US Hsu, Charles San Francisco CA US Urban, Robert G. Lexington MA US

US-CL-CURRENT: 435/6; 435/7.2

☐ 15. Document ID: US 20040203098 A1

L2: Entry 15 of 74

File: PGPB

Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040203098

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040203098 A1

TITLE: Compounds and methods for modulating activation of NF-kappaB

PUBLICATION-DATE: October 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Manning, Anthony M.	St. Louis	MO	US
Mercurio, Frank	San Diego	CA	US
Amit, Sharon	Beer-Sheba		IL
Ben-Neriah, Yinon	Zion		IL
Davis, Matti	Jerusalem		IL
Hatzubai, Ada	Kibutz Palmah-Zova		IL
Yaron, Avraham	Jerusalem		IL
Alkalay, Irit	Jerusalem		IL
Ciechanover, Aaron	Haifa		IL

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US-CL-CURRENT: $\frac{435}{69.1}$; $\frac{424}{94.63}$, $\frac{435}{226}$, $\frac{435}{320.1}$, $\frac{435}{325}$, $\frac{536}{23.2}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 16. Document ID: US 20040180353 A1

L2: Entry 16 of 74

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040180353

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040180353 A1

TITLE: Methods of assaying for cell cycle modulators using components of the

ubiquitin ligation cascade

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Booher, Robert San Francisco CA US Masuda, Esteban Menlo Park CA US Ossovskaya, Valeria San Francisco CA US Wong, Brian San Mateo CA US

US-CL-CURRENT: 435/6; 435/7.23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
	17.	Docum	ent ID): US 2	004017100	3 A1						
L2: E	Entry	17 of	74				File:	PGPB		Sep	2,	2004

PGPUB-DOCUMENT-NUMBER: 20040171003

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040171003 A1

TITLE: Cancer-associated genes

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yoshikawa, Yoshie	Kyoto		JP
Okamoto, Sachiko	Kyoto		JP
Oura, Tomonori	Kyoto		JP
Mineno, Junichi	Kyoto		JP
Asada, Kiyozo	Shiga		JP
Inoue, Hiroshi	Oita		JP
Mori, Masaki	Oitama		JP

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US-CL-CURRENT: 435/6

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 18. Document ID: US 20040166553 A1

L2: Entry 18 of 74

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040166553

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040166553 A1

TITLE: Caged sensors, regulators and compounds and uses thereof

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Nguyen, Quan San Ramon CA US McMaster, Gary Ann Arbor MI US

US-CL-CURRENT: 435/15

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

☐ 19. Document ID: US 20040157272 A1

L2: Entry 19 of 74 File: PGPB Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040157272

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040157272 A1

TITLE: Cell-based screening methods

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Cardone, Michael H. Boston MA US Yaffe, Michael Jamaica Plain MA US

US-CL-CURRENT: <u>435/7.2</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi D

☐ 20. Document ID: US 20040156826 A1

L2: Entry 20 of 74

File: PGPB

Aug 12, 2004

Record List Display Page 10 of 10

PGPUB-DOCUMENT-NUMBER: 20040156826

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040156826 A1

TITLE: Treatment of patients with multiple sclerosis based on gene expression

changes in central nervous system tissues

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY US Dangond, Fernando Newton MA Hwang, Daehee Seattle WA UŞ Gullans, Steven R. MΑ US Natick

US-CL-CURRENT: 424/93.2; 424/85.6, 514/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWIC	Dram. (
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	Te	rms							Do	cument	s	

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Search Results - Record(s) 21 through 40 of 74 returned.

☐ 21. Document ID: US 20040152873 A1

Using default format because multiple data bases are involved.

L2: Entry 21 of 74

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040152873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040152873 A1

TITLE: Novel gene bn01 mapping to chromosone 16q24.3

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Callen, Gabriel Frederick Malvern AU Powell, Jason Cumberland Park AU Kremmidiotis, Gabriel Flagstaff Hill ΑU Gardner, Alison Brighton AU Crawford, Joanna Stirling ΑU Bais, Anthony Parkholme ΑU Kochetkova, Marina Medindie AU

US-CL-CURRENT: $\underline{530}/\underline{350}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{435}/\underline{6}$, $\underline{435}/\underline{69.1}$, $\underline{530}/\underline{388.1}$, $\underline{536}/\underline{23.5}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

☐ 22. Document ID: US 20040116347 A1

L2: Entry 22 of 74

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040116347

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040116347 A1

TITLE: Methods of assaying for modulators of the inflammatory process using components of the ubiquitin ligation cascade

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Masuda, Esteban

Menlo Park

CA

US

Wong, Brian

San Mateo

CA

US

US-CL-CURRENT: 514/12; 435/6, 435/7.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

☐ 23. Document ID: US 20040081652 A1

L2: Entry 23 of 74

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040081652

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040081652 A1

TITLE: Neuronal and optic nerve gene expression patterns

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Zack, Donald Jeffery

Baltimore

MD

US

Quigley, Harry A.

Baltimore

MD

US

US-CL-CURRENT: <u>424</u>/<u>146.1</u>; <u>424</u>/<u>145.1</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

☐ 24. Document ID: US 20040076973 A1

L2: Entry 24 of 74

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040076973

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040076973 A1

TITLE: Antisense modulation of ubiquitin protein ligase expression

PUBLICATION-DATE: April 22, 2004

INVENTOR - INFORMATION:

NAME CI

CITY

STATE

COUNTRY

Monia, Brett P. Cowsert, Lex M.

Encinitas Pittsburgh CA PA US US

US-CL-CURRENT: 435/6; 435/375, 514/44, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 25. Document ID: US 20040072268 A1

L2: Entry 25 of 74 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072268

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040072268 A1

TITLE: Methods for regulating BRCA1-BRCA2-containing complex activity

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Shiekhattar, Ramin Philadelphia PA US

US-CL-CURRENT: 435/7.23; 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 26. Document ID: US 20040053303 A1

L2: Entry 26 of 74 File: PGPB Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040053303

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040053303 A1

TITLE: Mahoganoid polypeptides, and related compositions and methods

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Leibel, Rudolph L. New York NY US Chung, Wendy K. Hackensack IJ US Phan, Loan K. Brooklyn NY US

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De	
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	27.	Docum	ent ID): US 2	004003835	8 A 1							

File: PGPB

L2: Entry 27 of 74

PGPUB-DOCUMENT-NUMBER: 20040038358

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038358 A1

TITLE: Proteolysis targeting chimeric pharmaceutical

Feb 26, 2004

Record List Display Page 4 of 10

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Dashaies, Raymond J. Claremont CA US
Crews, Craig New Haven CT US

Sakamoto, Kathleen M. Manhattan Beach CA US

US-CL-CURRENT: 435/188.5; 424/178.1, 424/94.63, 435/226

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

☐ 28. Document ID: US 20040025196 A1

L2: Entry 28 of 74 File: PGPB Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040025196

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040025196 A1

TITLE: POSH nucleic acids, polypeptides and related methods

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Alroy, Iris Ness-Ziona ILGreener, Tsvika Ness-Ziona ILTuvia, Shmuel Netanya IL Ben-Avraham, Danny Tel-Aviv IL

US-CL-CURRENT: 800/11; 435/320.1, 435/325, 435/5, 435/69.1, 530/350, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 29. Document ID: US 20030225079 A1

L2: Entry 29 of 74 File: PGPB Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030225079

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030225079 A1

TITLE: Use of inhibitors of the EGFR-mediated signal transduction for the treatment of benign prostatic hyperplasia (BPH)/prostatic hypertrophy

PUBLICATION-DATE: December 4, 2003

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY

Singer, Thomas Inzlingen DE
Platz, Stefan Ummendorf DE
Colbatzky, Florian Stafflangen DE

US-CL-CURRENT: 514/233.8; 514/266.22, 514/266.24, 514/266.4, 514/313

Full Title Citatio	Front Review	Classification D	ate Reference	Sequences	Attachments	Claims	KWIC	Drawi De

☐ 30. Document ID: US 20030199036 A1

L2: Entry 30 of 74

File: PGPB

Oct 23, 2003

Page 5 of 10

PGPUB-DOCUMENT-NUMBER: 20030199036

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030199036 A1

TITLE: Ubiquitin ligases, and uses related thereto

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Beach, David Huntington Bay NY US Caligiuri, Maureen G. Huntington NY US Nefsky, Bradley Highland Park ΝJ US

US-CL-CURRENT: 435/69.1; 435/226, 435/23, 435/254.2, 435/320.1, 435/325, 435/6, 536/23.2, 800/8

Full Title Citation Front Review Classification Date Reference	e Sequences Attachments Claims KWC Draw. D

☐ 31. Document ID: US 20030194713 A1

L2: Entry 31 of 74

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030194713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030194713 A1

TITLE: NP95: methods of assaying for cell cycle modulators

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY
Hitoshi, Yasumichi Mountain View CA US
Jenkins, Yonchu San Francisco CA US

US-CL-CURRENT: 435/6; 435/7.23

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 32. Document ID: US 20030176343 A1

L2: Entry 32 of 74

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030176343

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030176343 A1

TITLE: Diagnostics and therapeutic uses of topors

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Rubin, Eric H. Belle Mead NJ US Saleem, Ahamed Highland Park NJ US Rasheed, Zeshaan Piscataway NJ US Haluska, Paul JR. Rochester MN US

US-CL-CURRENT: 514/12; 424/93.2, 435/6, 435/7.23, 514/44, 530/388.26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 33. Document ID: US 20030170866 A1

L2: Entry 33 of 74

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170866

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170866 A1

TITLE: Novel cyclin-selective ubiquitin carrier polypeptides

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Ruderman, Joan V. Wellesley MA US Hershko, Avram Haifa MA IL Kirschner, Marc W. Newton MA US Townsley, Fiona Cambridge TX GB Aristarkhov, Alexander Chestnut Hill US Eytan, Esther Haifa ILYu, Hongtao Dallas US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, De

☐ 34. Document ID: US 20030170850 A1

L2: Entry 34 of 74 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170850

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170850 A1

TITLE: Cell-based screening methods

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY COUNTRY STATE

Cardone, Michael H. Boston MA US Yaffe, Michael Jamaica Plain MA US

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.7, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 35. Document ID: US 20030170737 A1

L2: Entry 35 of 74 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170737

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170737 A1

TITLE: Cell-based screening methods

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY COUNTRY STATE

Cardone, Michael H. Boston US MA

Yaffe, Michael Jamaica Plain MΑ US

US-CL-CURRENT: 435/7.2; 435/15

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 36. Document ID: US 20030170611 A1

L2: Entry 36 of 74 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170611

Record List Display Page 8 of 10

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170611 A1

TITLE: Cell-based screening methods

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Cardone, Michael H. Boston MA US Yaffe, Michael Jamaica Plain MA US

US-CL-CURRENT: 435/5; 435/15, 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 37. Document ID: US 20030166587 A1

L2: Entry 37 of 74 File: PGPB Sep

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166587

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166587 A1

TITLE: Compounds and methods for modulating activation of NF-kB

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Manning, Anthony M. Lake St. Louis US MO Mercurio, Frank San Diego CA US Amit, Sharon Beer-Sheba ILBen-Neriah, Yinon Zion ILDavis, Matti Jerusalem ILHatzubai, Ada Kibutz Palmah-Zova ILYaron, Avraham Jerusalem ILAlkalay, Irit Jerusalem ILCiechanover, Aaron Haifa IL

US-CL-CURRENT: 514/44; 424/94.63, 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 38. Document ID: US 20030162237 A1

L2: Entry 38 of 74 File: PGPB Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030162237

PGPUB-FILING-TYPE: new

Record List Display Page 9 of 10

DOCUMENT-IDENTIFIER: US 20030162237 A1

TITLE: Methods of monitoring enzyme activity

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Griffiths, Gary Dundee GB

US-CL-CURRENT: <u>435/7.92</u>; <u>435/6</u>

☐ 39. Document ID: US 20030153097 A1

L2: Entry 39 of 74

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153097

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030153097 A1

TITLE: Modulation of COP9 signalsome isopeptidase activity

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Deshaies, Raymond J. Claremont CA US Cope, Gregory Pasadena CA US Verma, Rati Pasadena CA US Ambroggio, Xavier I. Pasadena CA US

US-CL-CURRENT: <u>436/518</u>; <u>435/320.1</u>, <u>435/325</u>, <u>435/69.1</u>, <u>514/1</u>, <u>514/12</u>, <u>530/324</u>, <u>536/23.1</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
	40.	Docum	nent ID): US 2	003015256	2 A1	,,,,,,,,,					
L2: E	ntry	40 of	74				File: I	PGPB		Aug	14,	2003

PGPUB-DOCUMENT-NUMBER: 20030152562

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030152562 A1

TITLE: Vitro micro-organs, and uses related thereto

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Mitrani, Eduardo N.

Jerusalem

IL

US-CL-CURRENT: <u>424/93.21</u>; <u>435/325</u>, <u>435/366</u>, <u>435/69.1</u>

Full	Title Citatio	n Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. [
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Search Results - Record(s) 41 through 60 of 74 returned.

☐ 41. Document ID: US 20030113762 A1

Using default format because multiple data bases are involved.

L2: Entry 41 of 74

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113762

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113762 A1

TITLE: Gleason grade 4/5 prostate cancer genes

PUBLICATION-DATE: June 19, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE

COUNTRY

Warrington, Janet A.

Los Altos

CA

US

US-CL-CURRENT: <u>435/6</u>; <u>435/7.23</u>, <u>702/19</u>, <u>702/20</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
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☐ 42. Document ID: US 20030103939 A1

L2: Entry 42 of 74

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030103939

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030103939 A1

TITLE: Pseudotyped adeno-associated viruses and uses thereof

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

Engelhardt, John F.

CITY

STATE

COUNTRY

Iowa City

ΙA

US

Yan, Ziying

NAME

Iowa City

ΙA

US

US-CL-CURRENT: 424/93.2; 435/235.1, 435/320.1, 435/456, 514/44

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 43. Document ID: US 20030079235 A1

L2: Entry 43 of 74

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030079235

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030079235 A1

TITLE: Assay for measuring enzyme activity in vivo

PUBLICATION-DATE: April 24, 2003

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY

Craig, Roger Kingdon Smallwood GB
Green, Simon Invergowrie GB

Colyer, John Bardsey GB

US-CL-CURRENT: 800/3; 424/9.6, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 44. Document ID: US 20030077288 A1

L2: Entry 44 of 74 File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077288

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030077288 A1

TITLE: Compositions and methods for treatment of muscle wasting

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Goldberg, Alfred L. Chestnut Hill US MA Gomes, Marcelo D. Brookline MA US Lecker, Stewart H. Brookline MA US Jagoe, R. Thomas Ellesmere GB

US-CL-CURRENT: <u>424/185.1</u>; <u>424/94.1</u>, <u>530/350</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Cla	ms KWIC	Draw. D
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☐ 45. Document ID: US 20030073097 A1

L2: Entry 45 of 74

File: PGPB

Apr 17, 2003

Record List Display Page 3 of 10

PGPUB-DOCUMENT-NUMBER: 20030073097

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073097 A1

TITLE: TRAF6-regulated IKK activators (TRIKA1 and TRIKA2) and their use as anti-

inflammatory targets

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Chen, Zhijian J. Dallas TX US
Deng, Li Dallas TX US

US-CL-CURRENT: 435/6; 435/21, 435/7.92

Full	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawu
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☐ 46. Document ID: US 20030022198 A1

L2: Entry 46 of 74 File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030022198 A1

TITLE: Light-emitting fusion proteins and diagnostic and therapeutic methods

therefor

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Kaelin, William G. JR. Boston MA US Livingston, David M. Brookline MA US Kim, Tae-You Seoul KR

US-CL-CURRENT: 435/6; 424/9.6, 435/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
П	47.	Docum	ent ID): US 2	002019760	6 A1						<u> </u>
.2: E	Entry	47 of	74				File: 1	PGPB		Dec	26,	2002

PGPUB-DOCUMENT-NUMBER: 20020197606

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197606 A1

TITLE: Compositions and methods for monitoring the modification of modification dependent binding partner polypeptides

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Craig, Roger

Smallwood

GB

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw

L2: Entry 48 of 74

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020194627

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020194627 A1

TITLE: Transgenic mice containing ubiquitin protein ligase E3 gene disruptions

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Leviten, Michael W.

Palo Alto

CA

US

US-CL-CURRENT: 800/8; 435/226, 435/320.1, 435/354, 435/455, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
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L2: I	Entry	49 of	74				File: 1	PGPB		Dec	19,	2002

PGPUB-DOCUMENT-NUMBER: 20020192737

PUBLICATION-DATE: December 19, 2002

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020192737 A1

TITLE: Pharmaceuticals and methods for treating hypoxia and screening methods therefor

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Kaelin, William G. JR.

Boston

MA

US

Ivan, Mircea

Cambridge

MA

US

US-CL-CURRENT: <u>435/25</u>; <u>435/184</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

□ 50. Document ID: US 20020192160 A1

L2: Entry 50 of 74

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192160

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020192160 A1

TITLE: Novel human tumor suppressor gene

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Callaghan, Michelle J. Drummoyne AU
Sutherland, Robert L. Lindfield AU
Watts, Colin K. Avalon AU

US-CL-CURRENT: 424/9.1; 435/226, 435/320.1, 435/325, 435/69.1, 530/324, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

51. Document ID: US 20020106689 A1

L2: Entry 51 of 74

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106689

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020106689 A1

TITLE: METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE DISEASE

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

FAUSTMAN, DENISE WESTON MA US HAYASHI, TAKUMA CAMBRIDGE MA US

US-CL-CURRENT: 435/7.1; 436/506

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 52. Document ID: US 20020086401 A1

L2: Entry 52 of 74 File: PGPB Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086401

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086401 A1

TITLE: Novel cyclin-selective ubiquitin carrier polypeptides

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ruderman, Joan V.	Wellesley	MA	US
Hershko, Avram	Haifa	MA	IL
Kirschner, Marc W.	Newton	MA	US
Townsley, Fiona	Somerville	MA	US
Aristarkov, Alexander	Boston	MA	US
Eytan, Esther	Haifa		IL
Yu, Hongtao	Somerville		US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
	53	Docum	ent IF	. IIS 2	002006478	<u></u>	richide					
		53 of		. 002	002000170		File:	PGPB		May	30,	2002

PGPUB-DOCUMENT-NUMBER: 20020064784

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020064784 A1

TITLE: Pharmaceutically tractable secondary drug targets, methods of identification and their use in the creation of small molecule therapeutics

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Friend, Stephen Seattle WA US Hartwell, Leland Seattle WA US

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, D

☐ 54. Document ID: US 20020025569 A1

L2: Entry 54 of 74

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020025569

PGPUB-FILING-TYPE: new

Record List Display Page 7 of 10

DOCUMENT-IDENTIFIER: US 20020025569 A1

TITLE: COMPONENTS OF UBIQUITIN LIGASE COMPLEXES AND USES RELATED THERETO

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

CALIGIURI, MAUREEN READING MA US ROLFE, MARK NEWTON MA US

US-CL-CURRENT: $\frac{435}{183}$; $\frac{435}{252.3}$, $\frac{435}{254.11}$, $\frac{435}{320.1}$, $\frac{435}{325}$, $\frac{435}{4}$, $\frac{435}{7.4}$, $\frac{536}{23.2}$

Full	Title	Citation	Front	Review	Classification	Date	Referenc	e Sequences	Attachments	Claims	KWIC	Draw De
	55.	Docum	ent ID): US 2	002002225	8 A1						
L2: E	Entry	55 of	74				File:	PGPB		Feb	21,	2002

PGPUB-DOCUMENT-NUMBER: 20020022258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020022258 A1

TITLE: Ubiquitin ligase

PUBLICATION-DATE: February 21, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Song, Wen-Yuan Gainesville FL US
Pi, Li-Ya Gainesville FL US

US-CL-CURRENT: 435/219; 435/320.1, 435/410, 435/69.1, 530/388.26, 536/23.2

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVVIC	Draw. De
□ 56.	Docume	ent ID	: US 2	002001900	2 A1						
L2: Entry	56 of 7	74				File: P	GPB		Feb	14,	2002

PGPUB-DOCUMENT-NUMBER: 20020019002

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020019002 A1

TITLE: Methods of monitoring enzyme activity

PUBLICATION-DATE: February 14, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Griffiths, Gary

Oldham

GB

US-CL-CURRENT: 435/6

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 57. Document ID: US 6858709 B1

L2: Entry 57 of 74

File: USPT

Feb 22, 2005

US-PAT-NO: 6858709

DOCUMENT-IDENTIFIER: US 6858709 B1

TITLE: Component of von Hippel-Lindau tumor suppressor complex and SCF ubiquitin

ligase

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Conaway; Joan W.

Kansas City

MO

Conaway; Ronald C.

Kansas City

MO

Kamura; Takumi

Fukuoka

JP

US-CL-CURRENT: <u>530/350</u>; <u>530/828</u>, <u>530/835</u>

Full Title Citation Front Review Classification Date Reference Application Claims KMC Draw, De

☐ 58. Document ID: US 6855510 B2

L2: Entry 58 of 74

File: USPT

Feb 15, 2005

US-PAT-NO: 6855510

DOCUMENT-IDENTIFIER: US 6855510 B2

** See image for Certificate of Correction **

TITLE: Pharmaceuticals and methods for treating hypoxia and screening methods

therefor

DATE-ISSUED: February 15, 2005

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Kaelin, Jr.; William G.

Boston

MA

Ivan; Mircea

Cambridge

MA

US-CL-CURRENT: <u>435/23</u>; <u>424/9.1</u>, <u>424/9.2</u>, <u>435/18</u>, <u>435/4</u>, <u>530/300</u>

Full Title Citation Front Review Classification Date Reference Secuences Alignments Claims KWC Draw. D

☐ 59. Document ID: US 6852906 B2

L2: Entry 59 of 74

File: USPT

Feb 8, 2005

US-PAT-NO: 6852906

DOCUMENT-IDENTIFIER: US 6852906 B2

TITLE: Assay for measuring enzyme activity in vivo

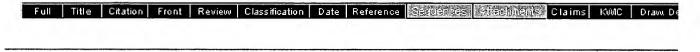
DATE-ISSUED: February 8, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Craig; Roger Kingdon Smallwood GB
Green; Simon Dundee GB
Colyer; John Bardsey GB

US-CL-CURRENT: 800/3; 800/22, 800/278, 800/288, 800/8



☐ 60. Document ID: US 6808874 B2

L2: Entry 60 of 74

File: USPT

Oct 26, 2004

US-PAT-NO: 6808874

DOCUMENT-IDENTIFIER: US 6808874 B2

TITLE: Methods of monitoring enzyme activity

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Griffiths; Gary Oldham GB

US-CL-CURRENT: 435/4; 435/15, 435/24, 435/7.1

Full Tit	tle Citation Fro	nt Review	Classification	Date	Reference	Sept.	(GL)	ttaidhinne	eksi CI	laims	KMC	Draw.
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Search Results - Record(s) 61 through 74 of 74 returned.

☐ 61. Document ID: US 6706505 B1

Using default format because multiple data bases are involved.

L2: Entry 61 of 74

File: USPT

Mar 16, 2004

US-PAT-NO: 6706505

DOCUMENT-IDENTIFIER: US 6706505 B1

TITLE: Human E3.alpha. ubiquitin ligase family

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Han; Hui-Quan Thousand Oaks CA Kwak; Keith Thousand Oaks CA

US-CL-CURRENT: <u>435/183</u>; <u>435/193</u>, <u>435/252.3</u>, <u>435/254.11</u>, <u>435/254.2</u>, <u>435/320.1</u>, <u>435/325</u>, <u>435/410</u>, <u>435/6</u>, <u>536/23.2</u>, <u>536/23.5</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

☐ 62. Document ID: US 6706491 B1

L2: Entry 62 of 74

File: USPT

Mar 16, 2004

US-PAT-NO: 6706491

DOCUMENT-IDENTIFIER: US 6706491 B1

TITLE: Reagents and methods for identifying and modulating expression of genes

regulated by p21

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chang; Bey-Dih Lombard IL Roninson; Igor B. Wilmette IL

US-CL-CURRENT: 435/29; 435/4, 435/7.21

☐ 63. Document ID: US 6610473 B1

L2: Entry 63 of 74

File: USPT

Aug 26, 2003

US-PAT-NO: 6610473

DOCUMENT-IDENTIFIER: US 6610473 B1

TITLE: Peptides for inhibiting HPV E6-proteins

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Butz; Karin Hirschberg DE Hoppe-Seyler; Felix Heidelberg DE

US-CL-CURRENT: $\frac{435}{5}$; $\frac{424}{159.1}$, $\frac{424}{192.1}$, $\frac{424}{199.1}$, $\frac{424}{204.1}$, $\frac{435}{6}$, $\frac{435}{69.7}$, $\frac{435}{7.1}$, $\frac{530}{326}$, $\frac{536}{23.1}$, $\frac{536}{23.72}$

Full Title Citation Front Review Classification Date Reference Scotter Claims KMC Draw De Control Cont

US-PAT-NO: 6503742

DOCUMENT-IDENTIFIER: US 6503742 B1

TITLE: Ubiquitin ligases and uses related thereto

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Beach; David Huntington Bay NY
Caligiuri; Maureen G. Huntington NY
Nefsky; Bradley Highland Park NJ

US-CL-CURRENT: 435/183; 435/252.3, 435/320.1, 435/325, 536/23.2

Full Title Citation Front Review Classification Date Reference

☐ 65. Document ID: US 6258601 B1

L2: Entry 65 of 74

File: USPT

Jul 10, 2001

US-PAT-NO: 6258601

DOCUMENT-IDENTIFIER: US 6258601 B1

TITLE: Antisense modulation of ubiquitin protein ligase expression

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Monia; Brett P. La Costa CA Cowsert; Lex M. Carlsbad CA

US-CL-CURRENT: $\frac{435}{375}$; $\frac{435}{366}$, $\frac{435}{6}$, $\frac{435}{91.1}$, $\frac{536}{23.1}$, $\frac{536}{24.31}$, $\frac{536}{24.33}$,

<u>536/24.5</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KVMC Draw. De

☐ 66. Document ID: US 6180379 B1

L2: Entry 66 of 74 File: USPT Jan 30, 2001

US-PAT-NO: 6180379

DOCUMENT-IDENTIFIER: US 6180379 B1

** See image for Certificate of Correction **

TITLE: Cyclin-selective ubiquitin carrier polypeptides

DATE-ISSUED: January 30, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ruderman; Joan V. Wellesley MA

Hershko; Avram Haifa IL

Kirschner; Marc W. Newton MA
Townsley; Fiona Somerville MA
Aristarkov; Alexander Boston MA

Eytan; Esther Haifa IL

Yu; Hongtao Somerville MA

US-CL-CURRENT: 435/193; 435/68.1, 530/350

Full Title Citation Front Review Classification Date Reference Continuents Claims KWC Draw Do

☐ 67. Document ID: US 6087122 A

L2: Entry 67 of 74 File: USPT Jul 11, 2000

US-PAT-NO: 6087122

DOCUMENT-IDENTIFIER: US 6087122 A

TITLE: Human E3 ubiquitin protein ligase

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Hustad; Carolyn Marziasz

Wilmington

DE

Ghildyal; Namit

Kennett Square

PA

US-CL-CURRENT: 435/29; 435/320.1, 435/325, 435/375, 536/23.2, 536/24.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 68. Document ID: US 6068982 A

L2: Entry 68 of 74

File: USPT

May 30, 2000

US-PAT-NO: 6068982

DOCUMENT-IDENTIFIER: US 6068982 A

TITLE: Ubiquitin conjugating enzymes

DATE-ISSUED: May 30, 2000

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Rolfe; Mark Newton Upper Falls MA
Chiu; Maria Isabel Boston MA
Cottarel; Guillaume West Roxbury MA
Berlin; Vivian Dunstable MA

Dunstable MA
Damagnez; Veronique Cambridge MA
Draetta; Giulio Winchester MA

US-CL-CURRENT: $\frac{435}{7.21}$; $\frac{435}{193}$, $\frac{435}{23}$, $\frac{435}{29}$, $\frac{435}{4}$, $\frac{435}{6}$, $\frac{435}{69.1}$, $\frac{435}{7.1}$, $\frac{435}{7.2}$, $\frac{530}{350}$

Full Title Citation Front Review Classification Date Reference Sevence Stationary Claims KWC Draw De

☐ 69. Document ID: US 6060262 A

L2: Entry 69 of 74

File: USPT

May 9, 2000

US-PAT-NO: 6060262

DOCUMENT-IDENTIFIER: US 6060262 A

TITLE: Regulation of I Kappa B (I.kappa.B) degradation and methods and reagents

related thereto

DATE-ISSUED: May 9, 2000

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Beer-Romero; Peggy Arlington MA Strack; Peter J. Cambridge MA Glass; Susan J.

Southborough

MA

Rolfe; Mark

Newton

MA

US-CL-CURRENT: $\underline{435/15}$; $\underline{435/18}$, $\underline{435/183}$, $\underline{435/21}$, $\underline{435/23}$, $\underline{435/24}$, $\underline{435/4}$, $\underline{435/968}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

☐ 70. Document ID: US 6010853 A

L2: Entry 70 of 74

File: USPT

Jan 4, 2000

US-PAT-NO: 6010853

DOCUMENT-IDENTIFIER: US 6010853 A

TITLE: Siva genes, novel genes involved in CD27-mediated apoptosis

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Kanteti; Prasad V. S.

Boston

MΑ

Ao; Zhaohui

Devon

PA

Schlossman; Stuart F.

Newton Centre MA

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 435/91.4, 435/91.5, 536/23.1, 536/23.4, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

☐ 71. Document ID: US 6001619 A

L2: Entry 71 of 74

File: USPT

Dec 14, 1999

US-PAT-NO: 6001619

DOCUMENT-IDENTIFIER: US 6001619 A

** See image for Certificate of Correction **

TITLE: Ubiquitin ligases, and uses related thereto

DATE-ISSUED: December 14, 1999

INVENTOR - INFORMATION:

Caligiuri; Maureen G.

NAME CITY STATE ZIP CODE COUNTRY

Beach; David

Huntington Bay

NY

Huntington NY

Nefsky; Bradley

Highland Park

NJ

US-CL-CURRENT: 435/193; 536/23.2

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KWIC Draw De

☐ 72. Document ID: US 5968761 A

L2: Entry 72 of 74

File: USPT

Oct 19, 1999

US-PAT-NO: 5968761

DOCUMENT-IDENTIFIER: US 5968761 A

TITLE: Ubiquitin conjugating enzymes

DATE-ISSUED: October 19, 1999

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Rolfe; Mark Newton Upper Falls MA
Chiu; Maria Isabel Boston MA
Cottarel; Guillaume West Roxbury MA

Berlin; Vivian Dunstable MA
Damagnez; Veronique Cambridge MA
Draetta; Giulio Winchester MA

US-CL-CURRENT: 435/15; 435/193

Full Title Citation Front Review Classification Date Reference Sections & Machinerita Claims KWIC Draw. De

☐ 73. Document ID: US 5851791 A

L2: Entry 73 of 74

File: USPT

Dec 22, 1998

US-PAT-NO: 5851791

DOCUMENT-IDENTIFIER: US 5851791 A

** See image for Certificate of Correction **

TITLE: Ubiquitin conjugating enzyme (E2) fusion proteins

DATE-ISSUED: December 22, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Vierstra; Richard David Madison WI Gosink; Mark Mattnew Madison WI

US-CL-CURRENT: <u>435/68.1</u>; <u>435/181</u>, <u>435/188</u>, <u>435/193</u>, <u>435/69.7</u>, <u>536/23.2</u>, <u>536/23.5</u>, <u>536/23.53</u>

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw. De

☐ 74. Document ID: US 5555303 A

L2: Entry 74 of 74

File: USPT

Sep 10, 1996

US-PAT-NO: 5555303

DOCUMENT-IDENTIFIER: US 5555303 A

TITLE: Secure transaction system and method utilized therein

DATE-ISSUED: September 10, 1996

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Stambler; Leon

Parkland

FL

33067

US-CL-CURRENT: <u>705/75</u>; <u>713/176</u>, <u>713/193</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequenc	SE (4) (6)	ingens:	Claims	KWIC	Drawu D
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